

The Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Previously Presented) An oscilloscope adapter for a portable stand-alone electronic device, comprising:

a removable module adapted to mate with a port of the portable stand-alone electronic device for receiving the removable module, the removable module further adapted to interface with a hardware interface port of the portable stand-alone electronic device when the removable module is located in the port for receiving the removable module, the stand-alone electronic device having a processor and a display, the module including a computer program memory, the memory storing computer program instructions thereon to direct the processor to perform the steps of:

collecting data representative of a signal from an external source; and

displaying the data on the display as a waveform comprising individual data values as a function of time on a graph having a vertical axis and a horizontal axis, each axis having a scale.

2. (Original) The adapter of claim 1 wherein the adapter further includes a database of model waveforms, and the instructions further direct the processor to display a model waveform from the database on the display.

3. (Original) The adapter of claim 1 wherein the adapter further includes a database of collected waveform data, and the instructions further direct the processor to store the data representative of the signal in database of collected waveform data.

4. (Original) The adapter of claim 1 wherein the adapter or the portable stand-alone electronic device contains a buffer, and the instructions further direct the processor to store the data representative of the signal in the buffer.

5. (Original) The adapter of claim 1 wherein the instructions further direct the processor to provide an electronic device input that, when activated by a user, allows the user to adjust the scale of one or both of the vertical axis and the horizontal axis.

6. (Original) The adapter of claim 5 wherein the electronic device input that allows the user to adjust one or both scales is displayed on a setup screen.

7. (Original) The adapter of claim 1 wherein the adapter further includes a language database containing data representative of words in a plurality of languages.

8. (Original) A method of causing an electronic device to function as an oscilloscope, comprising:

providing a stand-alone electronic device having a processor, a display, a memory, a port for receiving a removable adapter module, and a hardware interface port;

connecting the removable adapter module to the hardware interface port by mating the removable adapter module to the receiving port;

delivering computer program instructions from the removable adapter module to the processor for the electronic device;

collecting data representative of a signal from an external source;

displaying, in response to the computer program instructions, the data on the display as a waveform comprising individual data values as a function of time on a graph having a vertical axis and a horizontal axis, each axis having a scale.

9. (Original) The method of claim 8 wherein the adapter further includes a database of model waveforms, and the method further includes selecting a model waveform from the database and displaying the selected model waveform on the display.

10. (Original) The method of claim 8 wherein the adapter further includes a database of collected waveform data, and the method further includes storing the data representative of the signal in the database of collected waveform data.

11. (Original) The method of claim 8 wherein the adapter or the portable stand-alone electronic device contains a buffer, and the method further includes storing the data representative of the signal in the buffer.

12. (Original) The method of claim 8 comprising the additional step of adjusting the scale of one or both of the vertical axis and the horizontal axis.

13. (Original) The method of claim 12 wherein the adjusting step is performed while a setup screen is displayed on the display.

14. (Original) The method of claim 8 wherein the adapter further includes a language database containing data representative of words in a plurality of languages, and the method comprises the additional steps of translating text and displaying the translated text on the display.

15. (Cancelled)

16. (Previously Presented) The system of claim 20 wherein the removable adapter module further includes a database of model waveforms.

17. (Previously Presented) The system of claim 16 wherein the computer program instructions further direct the processing means to display a model waveform from the database on the display means.

18. (Previously Presented) The system of claim 20 wherein the removable adapter module further includes a database of collected waveform data.

19. (Previously Presented) The system of claim 18 wherein the computer program instructions further direct the processing means to store the data representative of the signal in the database of collected waveform data.

20. (Currently Amended) A system for causing an electronic device to function as an oscilloscope, comprising:

means for processing electronic signals having a means for processing, a means for retaining memory, a means for receiving a removable adapter module, and a means for interfacing with the removable adapter module;

means for retaining the removable adapter module to the receiving means to mate the removable adapter module to the interfacing means;

means for delivering computer program instructions from the removable adapter module to the processing means for the means for processing electronic signals;

means for collecting data representative of a signal from an external source; and

means for displaying, in response to the computer program instructions, the data on the displaying means as a waveform comprising individual data values as a function of time on a graph having a vertical axis and a horizontal axis, each axis having a scale.

21. (Previously Presented) The system of claim 20, wherein the means for processing electronic signals comprises:

a portable stand-alone electronic device.

22. (Previously Presented) The system of claim 20, wherein the receiving means comprises:

a port for receiving the removable adapter module.

23. (Previously Presented) The system of claim 20, wherein the retaining means comprises:

one or more extensions.

24. (Previously Presented) The system of claim 23, wherein the extensions form grooves or notches.